

Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

GENERAL INDEX.

TO THE FIFTH AND SIXTH VOLUMES.

The Roman numerals signify the volume, and the figures, the page.

A

ABSORPTION of air by water, V, 21.—effects of pressure on, 24.—of fix ed air, see Air, fixed. Acid, marine, action of its vapour, V, 3, 7. - nitrous, action of its vapour on charcoal, V, 4.—on animal fibres.—on phosphorus, 5.—experiments on phlogisticated and dephlogisticated, 11.—how formed in the atmosphere, VI, 131. - septic, contained in sea-water, V, 141. Acids, on, See Priestley. Advertisement, of the Am. Phil. Soc. V, iii. VI, iv. Ætites or eagle-stone, found in the alluvial soil of Maryland, VI, 319. Agaricus, poisonous effects of some species of, V, 62. Agitation. See Air. Air, absorption of by water, V, 21.—effects of pressure on the absorption of, 24.—effects of agitation on the same, 25.—generated by the freezing of water, 36.—exposed to heat in metallic tubes, 42.—transmission of through the substance of some metallic tubes, 44. fixed, absorption of by iron-filings with sulphur, V, 12. initrous, readily absorbed by water, V, 23. --- phlogisticated, experiments on, V, 46.—method of obtaining, 50. -phosphoric, not always inflammable by the admission of atmospheric, air, V, 9. -vitriolic acid, water impregnated with produces sulphur, V, 8. -different kinds of, purity or impurity of, V, 9.—proportion of latent heat in, 10.—transposition of, 14. Albany, State of New-York, longitude of, VI, 297.—latitude 297. Aldebaran, occultation of by the moon, VI, 213. Alkali, caustic fixed, action of its vapour, V, 3.—pounded glass dissolved in a solution of, 8.

Allison, Burgiss, D. D. his description of a newly invented globe time-piece.

volatile, gives a blue colour to the solution of copper, V, 6.

V, 82.—description of the pendant planetarium, 87.

Alkaline matter, contained in sea-water, V, 141.

Alluvial soil, in the state of Maryland, VI, 319.—extent of, in the U. S. 413. American antiquities. See Antiquities.

American Philosophical Society, rules of V, iii.—officers, V, xii. VI, v, xxi.—Members, V, xiii. VI, vi, xxii.—circular letter to, relative to the state of their own country, V, ix.—donations received, V, xiv. VI, ix, xxv.

Amphibolic rock, found transported in the alluvial soil of Maryland, VI, 320.

—in the primitive soil of the same state, 321.

Amygdaloid rock, found in the bed of the Potomac river, VI, 322.

Analysis, of the fluids ejected before the commencement of the black vomiting in yellow fever, V, 120.—of the black vomit itself, 121.

Andromeda mariana, deleterious effects of, V, 61.

Angles, improved method of projecting and measuring plane, VI, 29.

Angles of the sails of a wind-mill. See Wind-mill.

Antes, Colonel, on the hybernation of swallows, VI, 59.

Apocinum androsæmifolium, irritability of the flowers of, VI, 81.

Apparatus, astronomical. See Instruments.

----chemical, account of a new arrangement of, VI, 99.

Appendix to Vol. V, 325.

Aqua regia, experiments relating to, V, 11.

Asclepias Syriaca, irritability of the flowers of, VI, 79.

Astronomical observations. See Dunbar, Dewitt, Ellicott, Ferrer & Patterson. Atmosphere, evening phenomenon in, VI, 41.—excessive cold of, in the district of Maine, VI, 401.

Azalea nudiflora, deleterious qualities of, V, 64.

В

Barton, Dr. Benj. Smith, on the poisonous honey of N. America, V, 51.—his memorandum concerning a new vegetable muscipula, VI, 79.—his account of a new species of N. A. lizard, 108.—his supplement to the account of the Dipus Americanus, 143.—his letter to Dr. Beddoes on the etymology of certain English words, 145.—appointed by the A. P. S. to deliver a eulogium on Joseph Priestley, 190.

Baton-Rouge, description of a singular phenomenon seen at, VI, 25.

Baudry, des Lozieres, his memoir on animal cotton, or the insect fly-carrier, V, 150.

Bear, white, of the Mississippi, account of, VI, 71.

Beaver, very common in Louisiana, VI, 70.

——of N. America, facts and observations relative thereto, by Mr. John Heckewelder, VI, 209.

Bees, whether injured by quaffing the nectar of poisonous flowers, V, 57.—abounding in some parts of N. America, 58.—care necessary in the management of, 69.

Bengal. See Building.

Bismuth, action of the vapour of spirit of nitre on, V, 2.

Blood, different theories on the cause of the vermilion colour of, VI, 248.

—theory of Dr. Conover, 251.

Bones, fossil, found near the Mississippi, VI, 40.—communication concerning them, 55.

Bowdoin college, district of Maine, longitude of, VI, 273, 297.—latitude of, 273, 297.—observations made there on the solar eclipse of June 16th, 1806, 275.

Bricks, on those used in the U. States, VI, 384.

Brick-dust, use of in mortar, VI, 385.

Brown, Samuel, M. D. his description of a nitrous cave on Crooked Creek, Ky. with remarks and observations on gun-powder and nitre, VI, 235.

Buffaloes, very abundant in Louisiana, VI, 70.

Building in India, on the principles and practice of, VI, 376.—materials used for, 378.—thickness of the walls, 379.—exterior and interior plaistering, 379.—shell lime, how made and used, 379.—manner of constructing the roof, 380.—manner of constructing the terrace, 380.—result of experiments made on the weight and strength of timber used, 382.—various observations, 384.

Bull, Colonel, his notes concerning a vegetable found under ground, V, 160.
Boundary of the U. S. and His Catholic Majesty, astronomical and thermometrical observations made on, V, 203 to 311.—first point fixed, 209. Thompson's Creek, 217.—lat. 228.—long. 271.—Mobile river, 229.—long. 241.—lat. 242.—riverCoenecuch, 244.—lat. 247.—Chattahocha or Apalachicola river, 249.—long. 255.—lat. 256, 258.—Flint river, 259. long. 271.—lat. 272.—Point Peter to determine St. Mary's, 276.—long. 284.—lat. 285.—Amelio island, 287.—Cumberland island, 287.—St. Mary's, 287.—lat. 296 to 300.—long. 310.

C

Carbonic acid gas. See Air, fixed.

Cathrall, Dr. Isaac, his memoir on the analysis of black vomit, V, 117.

Cave, nitrous, description of one on Crooked creek in Kentucky, VI, 236.
—its temperature, 237.—vapours condensed upon its sides, 238.—nature of the earth, 238.—signs by which to judge of the quantity of nitre contained in the earth, 239.

Cement. See Mortar.

Charcoal; action of the vapour of spirit of nitre on, V, 2.—of marine acid, 3.—experiments made with in the nitrous acid, 4.—other experiments on, 34.

of bones, action of the vapour of spirit of nitre on, V, 2.

Chart, nautical. See Nautical chart.

Chattahocha, astronomical observations made near the mouth of, V, 199.—longitude, 202.—latitude, 199.

Chrome, not contained in the meteoric stones of Weston, Conn. VI, 345.

Cincinnati, geographical position of, VI, 159.—See also Antiquities.

Cinder, finery, experiments on, V, 34.

Circular. See Committee.

Clay, Joseph, M. A. P. S. his observations on the figure of the earth, V, 312.

—his demonstration of a geometrical theorem, VI, 201.

Climate, on that of the Mississippi territory, VI, 9—23.—general remarks on the same, 48—55.—See also Mississippi territory and Dunbar.

Cloud, Joseph, an officer in the mint of the U. S. his account of experiments made on palladium, VI, 407-411.

Chupea, tyrannus, description of, V, 77.

Cock, account of one with two perforations, contrived to obviate the necessities of a vent-peg in tapping air-tight casks, VI, 105.

Cold, excessive, observed at Hallowell, in the district of Maine, in January, 1807, VI, 401.

Colour, of solution of copper in volatile alkali, V, 6.

-of the blood, opinions of physiologists and chemists concerning the vermilion, VI, 248,—250.—opinion of Dr. Conover, 251.

Colours, on the different, of the metallic oxides, 253.

Comet, observations on that which appeared in Septr. 1807, by J. J. Ferrer, VI, 345.—on the same, by W. Dunbar, 368.

Commissioners, for determining the boundaries between the U.S. and the Floridas, V, 203.—Spanish commissioners returned, 216.

Committee, appointed by the A. P. S. for collecting information respecting the state of this country, V, ix.—circular letter of the committee, ix.

Committees, of the A. P. S. rules adopted for the choice of papers for publication, VI, iv.

Conover, Samuel F.—M. D. his essay on the vermilion colour of the blood, and on the different colours of metallic oxides, with an application of these principles to the arts, VI, 247.

Contents, of, V, xxi.—VI, xxi, xlv.

Contortæ, destructive to insects, VI, 81.

Copper, action of the vapour of spirit of nitre on, V, 3.—of marine acid, 3. -colouring of its solution in volatile alkali, 6.

Cotton, animal, description of the insect producing it, V, 150.

-wild. See Asclepias syriaca.

Coulter, Thomas, Esq. his description of a method of cultivating peach-trees with a view to prevent their premature decay, V, 327.

Country, state of. See Committee.

D

Darwin's theory of spontaneous generation refuted, VI, 119,—129.

Datura stramonium, poisonous properties of, V, 57.

Deaths, statement of, with the diseases and ages in the city and liberties of Philadelphia from Jan. 1807 to Jan. 1809, VI, 403.

Dephlogisticated and inflammable air not exploding in red heat, V, 42.

De Witt, Simeon, Esq. of Albany, N. Y. his observations on the eclipse of June 16th, 1806, VI, 300.

Diameter of the sun, VI, 216.

Digester. See Papin.

Dipus Americanus, supplement to the account of, VI, 143.

Doctrine of phlogiston, V, 28.

Dunbar, William, Esq. of Mississippi territory, one of the commissioners for determining the boundary line between the U.S. and the Floridas, V, 203.—his report on the point of departure, 215, 216.—declined acting further, 217.

his paper on the language of signs among certain North American Indians, VI, 1.—meteorological observations made near the Missis-

sippi in the year 1799, 9.—his description of a singular phenomenon seen at Baton Rouge, 25.—extract of a letter from him to Mr. Jefferson, noticing fossil bones, 40.—meteorological observations made near the Mississippi, during 1800, 43.—description of the river Mississippi and its delta, 165.—monthly and annual results of meteorological observations made near the Mississippi during the years 1801, 1802 and 1803, 188.—appendix to the memoir on the Mississippi, 191.—observations made on the eclipse of the sun, June 16th 1806, at Natchez, 260.—on finding the longitude from the moon's meridian altitude, 277.—observations on the comet of 1807—8, 368.

Dupont, Mr. sur les végétaux les polypes & les insects V, 104.—sur la theorie des vents, VI, 32.

Duralde, Martin, his communication relative to fossil bones in the country of Apelousas &c. VI, 55.

E

Eclipse, annular, observed April 3d, 1791, VI, 357.

——lunar, observations made on, at Philad. by R. Patterson, and A. Elli cott, Sep. 21st, 1801, VI, 59.—on that of Nov. 14th, 1807, in the city of Havannah, by J. J. de Ferrer, 348.—on that of May 9th, 1808, by the same, 350.

——of the sun, observations made on that of Feb. 21st, 1803, at the city of Havannah, and at Lan. Penn. VI, 161.—on that of June 16th, 1806, made at Lan. by A. Ellicott, 255.—on the same at Natchez, by W. Dunbar, 260.—at Kinderhook, State of New-York, by J. J. de Ferrer and J. Garnett, 264, 293, 351, 362, at Albany state of New-York, by Sim. De Witt, 271, 300.—in Philad. by R. Patterson, 272.—on the banks of Schuylkill, by F. R. Hassler, 262.—near Natchez, by W. Dunbar, 272.—at Bowdoin College, Maine, by Dr. M'Keen, 275.

Egmont's, island, position of, VI, 87.

Ellicott, Andrew, his astronomical and thermometrical observations made at the confluence of the Mississippi and Ohio rivers, from the year 1796 to 1799, V, 162, 171.—similar observations made at Nachez, 172—190.—at the city of New-Orleans, 191—197.—on the boundary between the U. S. and his catholic majesty, 203—311.—observations on the transit of Mercury, made at Miller's place on the Coenecuch river, 197.—lunar observations made near the mouth of Chattahocha, 199.—his short and easy method for finding the equations for the change of the sun's declination &c. VI, 26.—his account of an extraordinary flight of meteors, 28.—his observations made on a lunar eclipse at Philad. 59.—his astronomical observations made at Lan. 61, continued, 113, and 233.—his observations of the eclipse of the sun, on the 21st, of Feb. 1803, 161.—his observations of the occultation of the I satellite of Jupiter, by the moon, 225.—his observations on the eclipse of the sun June 16th, 1806, made at Lan. 255.

Ellis, John, of New-Jersey, his account of a method of preventing the

premature decay of peach-trees, V, 325.

Ephoron Leukon or white fly of Passaick river, memoir on this insect, V,

Equations numeral, method of finding the root of, VI, 391.

Erica, deleterious qualities of the honey gathered from the different species of, V, 55.

Etymology, of certain English words, VI, 145.

Experiments, see Priestley.

 \mathbf{F}

Falls, of the rivers of the U. S. considered as the antient boundary-line of the Atlantic ocean, VI, 284.

Felspar, contained in the gneiss of Maryland, VI, 321.—found in several

places in the primitive rocks of the U. S. 414.

Ferrer, Jose Joaquin de, his observations on the eclipse of Jupiter's satellites at Laguira, V, 189.—his astronomical observations for determining the geographical position of various places in the U.S. and other parts of N. A. VI, 158.—his observations of the occultation of o in sagittarius by the disk of the moon, &c. 160.—his observations of the eclipse of the sun on Feb. 21st, 1803, 161.—his paper on geographical positions without the boundary of the U. S. 162.—his determination of the height of some mountains in New Spain, 164. his memoir on the occultation of Aldebaran by the moon &c. 213. his geographical positions of sundry places in N. A. and in the West Indies, 221.—his calculations on the passage of Mercury over the disk of the sun, 226.—his observations made on the eclipse of the sun, June 16th, 1806, 264, 293, 351, 362.—his observations on the comet of 1807-8, 345.—his continuation of astronomical observations &c. 347.—his notes and corrections to be applied to the geographical positions inserted from, 158 to 164, 360.

Fibre, animal, experiments made with the nitrous acid, V, 5.

Figure of the earth, observations on, V, 312.

Fire place, descriptions of some improvements in, V, 320.

Floridas, see Boundary.

Fluids, analysis of those ejected before the black vomiting in yellow fever, V, 120.

Fly Carrier, account of this insect, V, 150.

Fortifications, on the supposed of the western country, VI, 132.

Fossils, found in the alluvial soil of Maryland, VI, 320.

Frazer, John, his description of a stopper for the openings by which the sewers of cities receive the water of their drains, V, 148.

Freestone quarries, account of those on the Potomac and Rappahannoc rivers, VI, 283.—situations and directions thereof, 285.—nature of the stone, 286.—component parts, 286.—colour, 288.—hardness, 288.—specific gravity, 288.—mode of stratification, 288.—cause of this stratification explained, 289.—difference of cohesion, 289.—quality of the stone as a building material, 289.—substrata, 289, and superstrata, 290.—best quarries now in work, 290.—manner of working the quarries, 291.—hypothesis on the formation of, 291.

Fuel, see Peale.

7

G

Garnett, John of New-Brunswick state of New-Jersey, his description and use of a new nautical chart, for working the different problems in navigation &c. VI, 303.—his method of finding the roots of numeral equations &c. 391.—his paper on the best angles for the sails of a wind-mill, 394.

Gas, see Air-

Generation, observations and experiments relating to equivocal or spontaneous, VI, 119.

Geographical positions, on the Atlantic border of the U. S. VI, 158.—in the rivers Ohio and Mississippi, 159.—without the boundary of the U. S. 162.—of sundry plans in N. A. and the West-Indies, 221 to 225. notes and corrections to those inserted from, 158 to 164, 360.

Geology, on that of the U. S. VI, 411.

Geometrical Theorem, demonstration of one by J. Clay, VI, 201.

Glass, pounded, dissolved in a solution of caustic alkali, V, 8.

Globe, time piece, description of, V, 83.

Gneiss, forms part of the primitive soil of Maryland, VI, 321—322.

—in the states of New-York and Connecticut, 414.

Godon Mr. his observations to serve for a mineralogical map of the state of Maryland, VI, 319.

Gold, in aqua regia, experiments on, V, 11.—alloyed with palladium, VI, 411. Guglielmi, his theory on the velocity of rivers at their bottom refuted, VI, 192 & seq.

Gulf-stream, importance of the knowledge of its course in navigation, V. 92. Gunpowder, defects of that manufactured in the U. S. VI, 246.

H

Hare, Robert Junr. his account of the fusion of strontites and volatilisation of platinum, and also of a new arrangement of his apparatus, VI, 99.—his account of a cock with two perforations contrived to obviate the necessity of a vent-peg in tapping air-tight casks, 105.

Hassler, F. R. Esq. professor in the military school at West-point, extract from his paper on the meteoric stones, VI, 400.

Havannah, longitude of, VI, 225, 352.

Heat, latent, proportion of in different kinds of air, V, 10 .- action of on air in metallic tubes, 42.

Hematites, found in the alluvial soil of Maryland, VI, 320.

Hemlock, poisonous qualities of the honey gathered from the flowers of,

Honey, deleterious, on some kinds of, V, 51.—signs by which to distinguish it, 53.—manner of rendering it innocent, 56.—treatment of persons labouring under the injurious effects of, 56.—cause of its poisonous qualities, 58.—collected from kalmia angustitolia and latifolia, 59. from kalmia hirsuta, 61.—from andromeda mariana, 61.—from rhododendron maximum, 63.—from azalea nudiflora, 64.—from datura stramonium, 64.—noticed by Pliny, 65.—by Xenophon, 67.—by Tournefort, 67.—by Virgil, 68.—by Martyn, 68.

Hornstein, found in the alluvial soil of Maryland, VI, 320.

Heckewelder, John, his observations and facts relative to the beaver of N. A. VI, 209.

I

India, see Building.

Indian tumulus, account of articles found in one, V, 74.

Indians, North American, language of signs used among, VI, 1. seq.

Insects, observations on, V, 1.

Instruments, made use of in measuring the boundary line between the U.S.

and the Floridas, V, 204.

fones, Captain William of Philad. his letter to the President of the Society, communicating sundry queries proposed by him to William Jones Esq. civil engineer of Calcutta, relative to the principles and practice of building in India, with his answer to the same, VI, 375.

Iron, action of the vapours of caustic fixed alkali on, V, 3.——found in the alluvial soil of Maryland, VI, 319.—in the gneiss of the same state,

321, 322.

magnetic, where found in the U. S. VI, 414.

----malleable, experiments on that contained in meteoric stones, 341.

Iron rust, experiments on, V, 32.

---- turnings, action of the vapour of spirit of nitre on, V, 1.

Islands and shoals, account of some newly discovered in the Indian seas, VI, 87.

Jupiter, occultation of by the moon, VI, 221.

Fupiter's satellites, eclipses of, observed by J. J. de Ferrer, V, 189.—by A. Ellicott, V, 163, 165, 170, 178, 179, 180, 182, 185, 186, 188, 189, 191, 192, 194, 196, 197, 213, 214, 215.

---occultation of the first observed by A. Ellicott and Ortiz, VI, 225.

K

Kalmia, deleterious qualities of different species of, V, 59, 60, 61. Kinderhook, state of N. Y. longitude of, VI, 297.—latitude, ibid.

Kingsley, James L. his and Professor Silliman's memoir, on the meteoric stones which fell from the atmosphere, in the state of Connecticut &c. VI, 323.

L

Lancaster, Penn. astronomical observations made at, VI, 61, 113.—latitude of, 297.—longitude, 297.

Language of signs, on that used among the Indians, VI, 1.

Latitude, of Albany, VI, 265, 269, 297.

- -Bowdoin College district of Maine, VI, 273, 297.
- —the confluence of the Mississippi and Ohio, V, 169.

-Kinderhook, state of New-York, VI, 269, 297.

----Lancaster Penn. VI, 297.

- -Natchez Mississippi territory, V, 190.-VI, 297.
- ---Newburg, state of New-York, VI, 269, 297.

New-Orleans, V, 195.—VI, 269, 297.

Latitude, of New-York, VI, 269, 297.
——Philadelphia, VI, 297. ——Point Peter, near the mouth of St. Mary's river, V, 287.
—Williamsburg, VI, 297. —first point in the boundary between the U.S. and the Floridas, V, 209.
—how to be found at sea, see Nautical Chart.
Latrobe, Benj. Henry F. A. P. S. his paper on the Clupea Tyrannus and Oniscus Prægustator, V, 77.—his memoir on two species of Sphex.
inhabiting Virginia and Penn. &c. VI, 73.—his first report to the Society in answer to the inquiry of the society of Rotterdam: whether
any, and what improvements have been made in the construction of steam-engines in America? 89.—his account of the freestone-quar
ries on the Potomac and Rappahannoc rivers, 283.
Lead, action of the vapour of spirit of nitre on, V, 2.
Lime, experiments on, V, 30.—contained in sea-water, 141.
of shells, how made and used in India, VI, 379. Lizard, account of a new species of N. American, VI, 108.
Logarithms, how to be applied for finding the roots of numeral equations,
VI, 391.
Longitude, of Albany, VI, 265, 271, 297.
Bowdoin College, district of Maine, VI, 297.
—the confluence of Mississippi and Ohio, V, 171.
—Havannah, VI, 225, 352.
Kinderhook, state of New-York, VI 270, 297.
Laguira, VI, 361.
Lancaster Penn. VI, 297.
-Natchez, Mississippi territory, V, 189, VI, 225, 297, 361.
Newburg, N. York, VI, 297.
—New-Orleans, V, 197, VI, 222, 297.
New-York, VI, 297, 360.
Philadelphia, VI, 297, 359.
Point Peter near the mouth of St. Mary's river, V, 284.
——Porto Rico, VI, 213, 214, 220, 221, 222.
—Vera Cruz, VI, 223, 224, 361.
—Williamsburg, VI, 297.
—several places by the observation of the passage of Venus, VI, 355. —how found from the moon's meridian altitude, VI, 277.
—how found at sea, see Nautical Chart.
Louisiana, notices of the natural history of the northerly parts of, VI, 69. Lunar observations, made at the mouth of Chattahocha, V, 199.
· · · · · · · · · · · · · · · · · · ·

\mathbf{M}

M'Keen, Rev. Dr. President of Bowdoin College, Maine, his letter on the solar eclipse, June 16th, 1806, VI, 276.

Maclure, W. Esq. his observations on the geology of the U.S. explanatory of a geological map, VI, 411.

Madison, Bishop, on the supposed fortifications of the western country, VI, 132.

Magellanic prize regulations, V, v, VI, vii. - awarded, VI, 203, 303, 428.

Magnesia, contained in sea-water, V, 141.—in meteoric stones, VI, 339. Marine acid, action of its vapour, V, 3, 7.

Marshes, on the circular form of, in the country of Apelousas, VI, 58.

Maryland, mineralogical observations on the state of, VI, 319.

Mercury, passage of, over the disk of the sun, VI, 356. Metals, theory of oxidation of centrated, V, 33.

Meteors, account of an extraordinary flight of, VI, 28.

Meteoric stones, on the origin and composition of those which fell from the atmosphere at Weston, state of Connecticut, VI, 324.—appearance and progress of the meteor, 324, 325, 326.—its extent 326.—diameter of the body, 326.—consequences of the explosion, 327.—circumstances attending the first explosion, 327.—circumstances attending the second explosion, 328, 329, 330.—third explosion, 330.—description of the specimens found, 332.—distinct kinds of matter visible to the eye, 333.—chemical analysis of, 334.—hypothesis of President Clapp on, 335.—experiments on the stone at large, 336.—on the pyrites, 340.—on the malleable iron, 341.—on the irregular black masses, 342.—on the external crust, 342.—on the globular bodies, 343.—paper on the meteoric stones, by F. R. Hassler Esq. 400.

Meteorological observations, made near the Mississippi for 1799, VI, 9-23,

43-55, 188.

Method, for finding the equation for the change of the sun's declination &c. VI, 26.—of projecting and measuring plane angles, 29.

Mica, found in the alluvial soil of Maryland, VI, 319.—contained in the gneiss of the same state, 321.

Mineralogical nomenclature, according to Werner's system, VI, 412.

observations, on the state of Maryland, VI, 319.

on the U.S. in general, see Machine.

Miscellaneous experiments, on Phlogiston, V, 28.

Mississippi, periodical inundations of, VI, 165, 166, 167.—highest perpendicular ascent from the lowest ebb, 165.—width of its principal channel below the Ohio, 170.—depth from New-Orleans to its mouth, 172.—depth at Natchez, 172.—depth below the Ohio, 173.—utility of its inundations for the culture of rice, 176.—excess of inundation how injurious, 177.—prudential exertions against the excess of inundation, 177.—salubrity of its water, 177, 178.—comparison between the Nile and this river, 178—181.—elevation of tides and their progress up the river, 183.—velocity of its stream, 184.—changes of its bed, 185.—additional observations on its depth and velocity, 200, & seq.

Territory, Latitude N. 31° 28' Longitude 91° 30'.—meteorological observations made there, and account of the progressive vegetation during every month of the year 1799, VI, 11.—monthly recapitulation of meteorological observations during 1800, 43.—budding, blooming, fructification of trees and plants, 44—48.—times when domestic animals bring forth their young, 47, 48.—general state of the weather in all the months in the year, 44—48.—general account of the climate, 48—55.—monthly and annual results of meteorological observations made there for the years 1801, 1802, 1803; 188.

Mitchell Samuel L. his observations on the soda, magnesia and lime con-

tained in the water of the ocean, &c. V, 139.

Mixture, of dephlogisticated and inflammable air not exploding in red heat, V, 42.

---iron filings and sulphur absorbs fixed air, V, 12.

Moon, see Eclipse,

Mortar, what kind of, used in India, VI, 379, 380, 383.—use of brick-dust in, 285, & seq.

Mugford, Capt. William of Salem, his account and description of a temporary rudder invented by himself, VI, 203.

Muriate of soda, exceedingly rare in its pure state, V, 143.

Muscipula, vegetable, memorandum concerning a new, VI, 79.

Musk, impurity of the air confined with, V, 10.

N

Natchez, astronomical and thermometrical observations made at, V, 172—190.—longitude of, V, 188, VI, 159, 225, 297, 361.—latitude, V, 190, VI, 297.

Nautical Chart, description and use of a new and simple one for working the different problems in navigation &c. VI, 303.

Navigation, use of the thermometer in, V, 90.

New-Orleans, astronomical and thermometrical observations made at, V, 191—197.—longitude of, V, 196, 197, VI, 159, 222, 297.—latitude V, 196, VI, 159, 297.

New-York, longitude of, VI, 297, 360.—latitude, VI, 269, 297.

Nickel, oxide of, contained in meteoric stones, VI, 339.

Nitre, found in common salt when frequently mixed with snow, VI, 129.

——obtained from several caves in Kentucky, VI, 236.—from sand works, 241.—quantity contained in the rock ore, 242.

-vapours of spirit of, observations and experiments on, V, 2.

Nitrate of potash, see Saltpetre.

Nitric acid, various combinations of, VI, 245.

Nitrous acid, how found in the atmosphere, VI, 131.

Nitrous air, see Air.

0

Observations, meteorological, made near the Mississippi for 1799, VI, 9. Occultation, of o in sagittarius by the disk of the moon, VI, 160.

by the moon, VI, 369.—of different stars by the moon, 360, 361. Vide Ortis.

Occultations, table of the results of three of the stars by the moon, 350.

Officers, of the Society, V, xii.—for 1804, VI, v.—for 1809, xxi. Ohio, geographical positions of various places on, VI, 159.

Oleander, Nerium, destructive to insects, VI, 81.

Oniscus prægustator, description of, V, 77.

Ortiz, Don. Julian de Canelas, his observations of the occultation of the I satellite of Jupiter by the moon, VI, 225, 226.

Oxidation, of metals centrated, V, 33.

Oxigen, none in finery cinders, V, 33.—little in flowers of zinc, 34.

P

Palladium, experiments made on, VI, 407.—characters of, 410.

Papin's digester, experiment made with, V, 8.

Patterson, Robert, his method of projecting and measuring plane angles, VI, 29.—his observations on a lunar eclipse, 59.

Peach trees, method of preventing the premature decay of, V, 325.—method of cultivating them, 327.

Peale, C. W. his description of some improvements in the common fireplace, V, 320.

Phenomenon, description of one seen at Baton Rouge, VI, 25.—another, 41. Philadelphia, longitude of, VI, 297.—latitude, 297.—statement of deaths, with the diseases and ages in, from 1807 to 1809, 403.

Phlogisticated air. See Air.

Phlogiston, doctrine of, V, 28.

Phosphoric air, not always inflammable by the admission of atmospheric air, V, 9.

Phosphorus, experiments made with, in the nitrous acid, V, 5.

Planetarium, pendant, description of, V, 87.

Platina, account of the volatilisation of, VI, 99.

Platina in aqua regia, experiments on, V, 11.

Plumbago, experiments on, V, 28.

Poisonous honey, account of, V, 51.

Polypes. See Dupont.

Ports-Rico, longitude of, VI, 213, 220.

Potash, constituent parts of, VI, 244.

Precipitate per se, experiments on, V, 29.

Premium, conditions of the Magellanic, V, v.-VI, vii.

Pressure, effects of, in the absorption of air by water, V, 24.

Priestley, Dr. Joseph, his experiments on the transmission of acids and other liquors in the form of vapours, over several substances in a hot earthen tube, V, 1.—experiments relating to the change of place in different kinds of air, &c. 14.—experiments relating to the absorption of air by water, 21.—miscellaneous experiments relating to the doctrine of phlogiston, 28.—experiments on the production of air by the freezing of water, 36.—experiments on air exposed to heat in metallic tubes, 42.—observations and experiments relating to equivocal or spontaneous generation, VI, 119.—observations on the discovery of nitre in common salt which had been frequently mixed with snow, 129:—proceedings of the Society on his death, 190.

Primitive soil of the state of Maryland, VI, 321.—extent of, in the United States, 413.

Pyrites, experiments on those found in meteoric stones, VI, 340. Phosphorus, how made, V, 12.—experiments on, 29.

 \mathbf{Q}

Quarries. See Freestone.

Quartz, contained in the gneiss of Maryland, VI, 322.

Quartzose sand, constitutes the alluvial soil of Maryland, VI, 319.

13

Quicklime, experiments relative to the weight it acquires by exposure to the air, V, 12.

R

Rhododendron, poisonous effects of several species of, V, 63. Roofs, how constructed in India, VI, 380. Rosebay. See Oleander.

S

Sagittarius, occultation of o in, VI, 160.

Sailing. See Nautical chart.

Sails. See Wind-mill.

Saltpetre, method of making it in Kentucky, VI, 239.—how obtained in Spain, 243.

Satellites, vide Jupiter.

Sea-water, wherefore unfit for washing clothes, V, 144.—how to be rendered fit for washing, 146

Septic acid, in sea-water, V, 141.

Sewers of cities, description of a stopper for them, V, 148.

Shoals, account of some newly discovered in the Indian seas, VI, 87.

Signs, on the language of, used by some North American Indians, VI, 1. Silex, contained in meteoric stones, VI, 339.

Silliman, Benj. Professor of Chemistry in Yale College, Conn. his and Mr. Kingsley's memoir on the origin and composition of the meteoric stones which fell from the atmosphere at Weston, state of Connecticut, &c. VI, 323.—his chemical examination of the stones, 335.

Soida, contained in sea-water, V, 141.— is the basis of all hard soap, 145. Soil, alluvial, of the state of Maryland, VI, 319.

---primitive, of the state of Maryland, VI, 321.

Spanish America, boundary line between it and the United States, measured by A. Ellicott, V, 203.

Sphex, on two species of, inhabiting Virginia and Pennsylvania, VI, 73. Spirit of nitre. See Nitre.

Stars, shooting, account of, VI, 28.

Steam-engine, report on the improvements made in their construction in America, VI, 89.

Stopper, description of one for drains, in the sewers of cities, V, 148. Strickland, William, his paper on the use of the thermometer in navigation, V, 90.

Strontites, account of the fusion of, VI, 99.

Sugar, on the process of claying, VI, 82.—on the cultivation of, in Louisiana, 181.

Sulphur, produced by heating water impregnated with vitriolic acid air, V. 8.—contained in meteoric stones, VI, 339.

Sun, diameter of, VI, 216, 232.

----eclipse of. See Eclipse.

Swallows, on the hybernation of, VI, 59.

Τ

Talc, contained in the gneiss of Maryland, VI, 321.
—chloritic, in the primitive soil of Maryland, 322.

Terraces, how constructed in India, VI, 380.—in the United States, 390. Thermometer, use of in navigation, V, 90.—mode of suspending and proper situation of, VI, 10.

Thermometrical observations, made at the confluence of the Mississippi and Ohio rivers, V, 163.—made in measuring the boundary line between the United States and the Floridas, 203.—made during a voyage from England to America, 96.

Thomas, officer on board the American ship Ganges, his account of some new-

ly discovered islands and shoals, VI, 87.

Timber, experiments made on the weight and strength of that used in Bengal, VI, 382.—use of in walls, 383.

Time-piece, in the form of a globe, described, V, 82.

Tin, action of the vapour of spirit of nitre on, V, 2.

Tourmaline, found in the primitive soil of Maryland, VI, 322.

Transit, of Mercury, May, 1799, observed by A. Ellicott, V, 197.

Tripoli, a sort of clay, found in Maryland, VI, 320.

Tumulus, articles found in an Indian, V, 74.

Turner, George, his memoir on certain articles found in an Indian tumulus at Cincinnati, V, 74.

U

United States, boundary between, and the Floridas, determined by astronomical observations, V, 203.—See also Maclure.

V

Vapour. See Priestley.

Vaughan, John, his communication of observations made at Bowdoin College, on the solar eclipse of 1806, VI, 275.—letter addressed to him by professor Silliman and Mr. Kingsley, on the meteoric stones, 323.—extract of a letter relative to the great cold in January, 1807, at Hallowell, Maine, 401.

Vegetables. See Dupont.

Velocity, on the comparative, of rivers at their bottom and their surface, VI, 194.

Venus, passage of, over the disk of the sun, VI, 352.

Vera Cruz, New, longitude of, VI, 223, 361.

Volcanic productions, no where found to the east of the Mississippi, VI, 414. Vomit, black, in the yellow fever, description of, V, 117.—appearance of, in 1797, 119.—fluids ejected before the commencement of, 120.—analysis of, 121.—effects of on the living system, 128.—opinions of authors concerning, 132.—considered by Dr. Cathrall as an altered secretion from the bile, 136.

15

W

Walls, how constructed in India, VI, 378.—use of timber in, 388.

Washing, how to render sea-water fit for, V, 145.

Water, absorption of different kinds of air by, V, 22.—experiments on, 32.—air produced by the freezing of, 36.

----of the ocean. See Mitchell.

Watkins, Dr. John, his notices of the natural history of the northern parts of Louisiana, VI, 69.

Weather, in the Mississippi territory. See Mississippi territory.

Williams, Jonathan, Esq. his paper on the process of claying sugar, VI, 82. Williamsburg, longitude of, VI, 297.—latitude, 297.

Williamson, Dr. his paper on the ephoron leukon, or white fly of Passaick river, V, 71.

Wind-mills, on the best angles for the sails of, VI, 394.

Winds, on the theory of, VI, 32.—in the Mississippi territory. See Mississippi territory.